

SG0245 Sustainable management of boreal forests. 2023-03-22 - 2023-06-04

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Day	Time & Location	Activity	Content	Teacher
Wed 22/3	9.00-10.30 (Bokskogen)	Introduction	Course introduction Subject matter outline, Objectives & learning outcome course design, student responsibilities, activities, study group organization, schedule, literature, learning tools and grading, field trips.	Lenka Kuglerová & Järvi Järveoja (course leaders)
	10.30-11.00 (Bokskogen) PM	Assignment A1: Submit individual essay on Canvas 17:00	M1: A1: Introduction – Your perspective A1+Reading	Kuglerová
Thu 23/3	9.00-11.00 (Bokskogen) PM	Lecture Assignment	Sustainable management from multiple perspectives M2: Introduction to A2 A2: Group arrangement for A2 (Canvas), own literature searches, reading	Göran Hallsby Kuglerová
Fri 24/3	9.00-11.00 (Bokskogen) 11.00-17.00 (group rooms - library)	Lecture Assignment	Emerging policy and governance shifts in boreal forestry A2: Regional studies and Inter-regional groups: Topic 1: History of boreal forest exploitation and management Topic 2: Land ownership and tenure	Camilla Widmark
Sat 25/3				
Sun 26/3				
Mon 27/3	9.00-11.00 (Bokskogen) 11.00-17.00 (group rooms - library)	Lecture Assignment	Recent report on boreal forestry A2: Regional studies and Inter-regional groups: Topic 3: Forest operations, productivity and products Topic 4: Forest industry structure, markets and share of global trade	Ceder
Tue 28/3	9.00-12.00 (group rooms -	Assignment	A2: Regional studies and Inter-regional groups: Topic 5: Bioeconomy, governance and forest certification	

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	library) PM	Assignment	A2: Preparing presentations for seminar (troubleshooting with LK)	
Wed 29/3	9.00-12.00 (Bokskogen) PM	Seminar Reading	M2: The boreal forestry context, group presentations M3 introductory reading and preparation for quiz on climate change drivers (A3a)	Kuglerová + Järveoja
Thu 30/3	9.00-11.00 (Bokskogen) PM (online) PM	Lecture Video lecture Reading	M3: Module intro and assignment instructions Introducing circumboreal forestry and climate change M3 introductory reading and preparation for quiz on climate change drivers (A3a)	Gustaf Egnell Dan Binkley
Fri 31/3	8.00-12.00 PM	Assignment (Canvas) Assignments	A3a: Reading + Quiz: Climate change drivers and the importance of forests. Quiz opens at 8:00 and closes at midnight Work on A3b and c (individual and group work)	
Sat 1/4				
Sun 2/4				
Mon 3/4	9.00-11.00 (Bokskogen) PM	Lecture Assignments	Carbon balances across the managed forest landscape Work on A3b and c (individual and group work)	Matthias Peichl
Tue 4/4	9.00-11.00 (Bokskogen) PM	Lecture Assignments	Soil carbon in boreal forest – Impact of forest management Work on A3b and c (individual and group work)	Michael Gundale

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Wed	5/4	9.00-11.00 (Bokskogen) PM	Lecture Assignments	The role of wood-based products and bioenergy Work on A3b and c (individual and group work) Assignment A3b: Submit the group report no later than 16.00	<i>Gustaf Egnell</i>
Thu	6/4	Whole day	Assignment (voluntary) (deadline)	Personal summaries: deadline for A3c by midnight	
Fri	7/4	Easter			
Sat	8/4	Easter			
Sun	9/4	Easter			
Mon	10/4	Easter			
Tue	11/4	9.00-11.00 (online) 13.00-15.00 (Sälgen)	Online lecture Lecture	M4: Forest certification, FCS Future development of sawmill production	<i>Henrik von Stedingk</i> <i>Johan Oja, Norra Skog</i>
Wed	12/4	9.00-12.00 (Bokskogen) PM	Group discussion Lectures	Group presentations A3b, questions and discussion (finishing M3) Online lectures by T. Mörling	<i>Egnell, Peichl, Gundale</i>
Thu	13/4	9.00-11.00 (Bokskogen)	Assignment	Preparation for group assignments	
Fri	14/4	9.00-12.00 (Bokskogen) PM	Presentations Reading for M5	Group presentations and discussions	<i>Tommy Mörling</i>
Sat	15/4				
Sun	16/4				
Mon	17/4	9.00-11.00 (Bokskogen) PM	Lecture Reading	M5: More varied forestry Reading for M5	<i>Helena Dehlin, Swedish Forest Agency</i>
Tue	18/4	9.00-11.00 (online)	Lecture Assignment	Key habitats and retention approaches (biodiversity conservation)	<i>Lena Gustafsson</i>

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	PM		A5a: Read and work on survey questions for discussion on Friday afternoon	
Wed 19/4	9.00-12.00 (Bokskogen)	Lecture + discussion	Ecological restoration of forests for biodiversity	<i>Albin Larsson Ekström</i>
	PM	Reading	Preparations for open book exam (voluntary assignment)	
Thu 20/4	9.00-12.00 (Bokskogen)	Lecture	Microclimate importance for biodiversity	<i>Caroline G.</i>
	PM	Exercise	Modelling microclimate	
Fri 21/4	8.00-12.00 (Canvas)	Open book exam (A5b voluntary)	Forest management applications and biodiversity (submit by 12.00)	
	13.00	Assignment	A5a: deadline for survey	
	14.00-16.00 (Aspen)	Discussion (A5a)	Better than nature silviculture (A5a)	<i>Kuglerová</i>
Sat 22/4				
Sun 23/4				
Mon 24/4	9.00-12.00 (Bokskogen)	Lecture	M6: Introductions to forest health module Root rot Heterobasidion (Zoom)	<i>Jonas Rönnerberg</i>
	13.00-15.00	Assignment	A6: Open consultation on assignments with Jonas possible	<i>Malin Elfstrand</i>
	PM	Recorded lectures + reading		
Tue 25/4	9.00-9.50 (Bokskogen)	Lectures	Forest fire	<i>Anders Granström</i>
	10.00-10.50 (Zoom)		Storm-proof forests	<i>Martin Ahlström</i>
	PM	Assignment	A6 + reading	
Wed 26/4	9.00-11.00 (Bokskogen)	Lectures	Insect pests – spruce bark beetle Insect pests – pine weevil	<i>Maartje Klapwijk Kristina Wallertz</i>
	PM	Assignment	A6	

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Thu	27/4	9.00-9.45 (Bokskogen)	Online lectures	International plant trade and risks associated with tree seed	<i>Iva Franic</i>
		10.00-10.45 (Bokskogen)		Climate change interactions with forest health	<i>Diana Marciulyniene</i>
		13.00-14.00	Assignment	A6: Group assignment peer-assessment exercise	<i>Jonas Rönnberg</i>
Fri	28/4	9.00-9.25 9.30-10.15 10.30-11.15 (Bokskogen)	Lectures	Diplodia tip blight on Scots pine Cronartium on pine Conifer needle diseases	<i>Laura Brodde</i> <i>Åke Olson</i> <i>Iryna Matsiakh</i>
		13.00-15.00	Group presentations	Presentations of group work	<i>Rönnberg,</i> <i>Kuglerová</i>
		PM	Assignment	Submit A6 by midnight Reading for water week	
Sat	29/4				
Sun	30/4				
Mon	1/5	Public holiday			
Tue	2/5	9.00-11.00 (Bokskogen)	Lecture	M7: Intro to module Water in forested landscapes	<i>Kuglerová</i>
		13.00-15.00 (Aspen)	Lecture	Ditching practices in forests, Effects of ditching on water quality, quantity and ecology	<i>Eliza Hasselquist</i>
		15.00-17.00	Assignment	Introduction of group assignments A7a: Reading literature and working on debate statements (groups)	<i>LK+EMH</i>
Wed	3/5	9.00-10.00 (Bokskogen)	Lecture and discussion	Effects of forestry operations on water quality, quantity and ecology	<i>Kuglerová</i>
		10.15-12.00 (Bokskogen)	Lecture + exercise	Forest management around water	<i>Kuglerová + Hasselquist</i>
		PM	Assignment	Fill A7b individual voluntary assignment (deadline Friday midnight)	
Thu	4/5	9.00-10.30 (Bokskogen)	Lecture	Climate change, water and forestry	<i>Hjalmar Laudon</i>
		10.30-PM	Assignment A7a	Working on debate statements	

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Fri	5/5	9.00-11.00 (Bokskogen & Aspen)	Debate	Stakeholder debate, group 1 (LK), group 2 (EMH), group 3 (HL, if needed)	Kuglerová, Hasselquist
		11.15-12.00 (Bokskogen)	Concluding discussion	Concluding discussion	Kuglerová, Hasselquist
		PM	Assignment (voluntary)	Submit A7b by midnight	
Sat	6/5				
Sun	7/5				
Mon	8/5	9.00-11.00 (Bokskogen)	Lecture	M8 introduction: Management strategies in a long-term landscape perspective Introduction of Forests & Human health	Elisabet Bohlin
		11.00-12.00 (Bokskogen)	Assignment	Watching Youtube clips for A8a	
		PM	Assignment	A8a: Individual forest excursion or reading	
Tue	9/5	AM	Assignment	A8a: Individual forest excursion or reading	
		15.00-16.00 (Aspen)	Discussion	Discussion and follow up on A8a with teacher	Elisabet Bohlin
Wed	10/5	9.00-11.00 (online)	Video lecture	The forest in a landscape context – Green infrastructure	Bengt-Gunnar Jonsson
		PM	Assignment	Introduction of A8b – Canvas instructions and data collection	
Thu	11/5	9.00-11.00 (Bokskogen)	Lecture and discussion	Forestry and conservation in the coniferous forests of NW Sweden	Johan Svensson
		PM	Assignment	A8b: Working on a map and metrics for group assignment	
Fri	12/5	AM	Assignment	Working on assignments	
		13.00-16.00 (Bokskogen)	Lecture and discussion	Dialogues and other stakeholder interactions - experiences of a professional	Elisabet Andersson, Swedish Forest Agency
Sat	13/5				
Sun	14/5				

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Mon	15/5	AM 13.00-16.00 (Bokskogen)	Assignment Lecture and discussion	A8b: Working on a map and metrics for group assignment (deadline for submission by midnight) Decision support for sustainable forest management – tools and examples	Jeannette Eggers
Tue	16/5	9.00-12.00 (online) PM	Lecture and exercise Assignment	Participatory planning experiences A8c – individual summary of planning for different values	Eva-Maria Nordström
Wed	17/5	All day	Assignment Voluntary assignment	A8c – individual summary of planning for different values Voluntary: share draft report (submit to your A8d group by 14.00)	Supervised by Kuglerová
Thu	18/5	Public holiday			
Fri	19/5		Own work/Finishing of assignments	Preparation for field trip	
Sat	20/5				
Sun	21/5				
Mon	22/5	8.00 – departure from Umeå to Östersund	Field trip	M9: Green infrastructure	Anna Cabrajic, Eva Romell
Tue	23/5	8.00-17.00 (Jämtland)	Field trip	Riparian buffer management	Peter Lundgren, Jessica Johansson, Bosse Magnusson, Lenka Kuglerová
Wed	24/5	8.00-17.00 (Fagerdal)	Field trip	Clear-cut free forestry	Henrik Wikström, Göran Hallsby
Thu	25/5	8.00-17.00 (Fagerdal)	Field trip	Nature values, biodiversity	Göran Hallsby, Lenka Kuglerová
Fri	26/5	8.00-14.00 (Fagerdal) 15.00 – departure to Umeå	Field trip	Follow-up on A7	Kuglerová
Sat	27/5				
Sun	28/5				

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Mon	29/5	All day	Lecture + Conference session work	M10: Desirable futures in boreal forests + intro to assignment	<i>Järveoja</i>
Tue	30/5	All day	Assignment	A10a: Conference session work	
Wed	31/6	All day	Assignment	A10a: Conference session work	
Thu	1/6	9.00-14.00 (Bokskogen) PM	Conference Assignment	Conference sessions (3 parallel) and students viewing A10b: Peer-review Conference contributions	<i>Järveoja + Kuglerová</i>
Fri	2/6	9.00-10.00 (Bokskogen) 10.00-12.00 PM	Assignment Evaluation A0: Annotated bibliography (voluntary assignment)	A1b: Revise A1 (individually), bring notes to the final meeting Course conclusion and evaluation Fill out course evaluation in Evald Submit A0 (voluntary)	<i>Järveoja + Kuglerová</i>
Sat	3/6				
Sun	4/6				